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TheWEB2 - International Journal On Advances in Intelligent Systems, volume 16, numbers 3 and 4, 2023 , view article, infopt, v16_n34_2023_12

Adaptative-SHAP-Owen Analysis for the Enhancement of Explainable Intelligence Autism Centric Sequential Decision-Making

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Keywords: artificial intelligence systems; machine learning; LARA; HALO; LIME; SHAP; Monotonic Reasoning; Non-Monotonic Reasoning; Shapley Additive Explanations; Owen Analysis (SOVA); Sequential Decision-Making (SDM);

Abstract:

The challenging of an Intersectial X-SHAP-Owen Analysis (SOVA) is the focus of this paper. Interestingly, the analysis can potentially lend towards the enhancement of Artificial Intelligence (AI) System Intelligence Autism Centric Sequential Decision-Making (SDM) under artificial Ambiguity and Uncertainty (A/U) by leveraging certain Explainable Artificial Intelligence (XAI) Methods. Ambiguity and Uncertainty (UAVs) and Higher Ambiguity, Lower Uncertainty (HALU) Models are used to model Autism Centric Behavioral Patterns. The Systematic Paradox (SoP) Composition Similarity Measure Module (SCSMC) and LARA (Metaheuristic Algorithm Module (MAM)) — as well as HALO (Hybrid Ad Hoc Logic Ontology Module (HAHLOM)) and (CAM) Accelerator (CAM-A) Module (as a proxy case study example) CAB-A addresses the challenge of Robust Dialogue Management (RDM) in Autism Centric Sequential Decision-Making (Autism Centric AI Agent (CAI) as an is to be able to maintain consistency, coherency, and relevancy in the dialogue. The Hybrid Ad Hoc Logic Ontology Module (HAHLOM) Module (HAHLOM) — as well as the Accelerator (CAM) Module (CAM) — Monotonic Reasoning (MR) and Non-Monotonic Reasoning (NMR) — can help ensure the RDM's plausibility for enhanced conversational coherence. In turn, the Hybrid Ad Hoc Logic Ontology Module (HAHLOM) Module (HAHLOM) — as well as the Accelerator (CAM) Module (CAM